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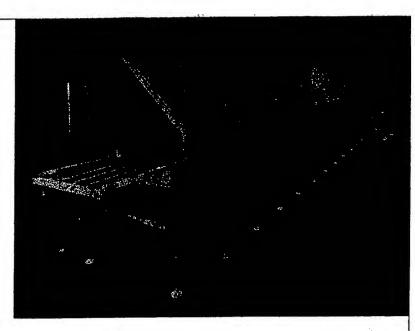
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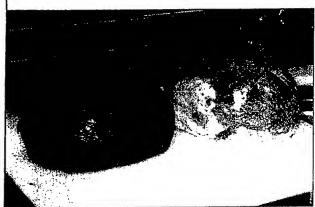


The RapidFlow Oven is the most versatile linear cooker/roaster/smoker in the market, with a temperature range from 0°C. To 350°C. The oven can.run as a linear steamer, roaster or combination. It is a modular oven, expandable from 1 zone to 6 zones.

We have customers cooking chicken parts, roasting vegetables, smoking turkeys, and searing barbecue rlbs. Many of the ready-meal companies use the oven to cook 15 to 20 different products daily.

Test cook with us at Ponca City, Oklahoma or Manchester, England.





See how these two case studies could affect your business:

#### In-Line Smoking and Browning

Traditionally, it takes 3 1/2 hours to smoke a deli turkey, with shrinkage of 7 to 9 percent. The RapidFlow smokes turkeys and hams in 10 minutes. The shrinkage is 1% and the internal temperature only increases by 1° C. This relieves your existing smokehouses by 40% of the time and gives you a payback of \$10,000 per day, based on 10,000 lbs. Per hour of production.

#### Sausage Links

The illustration is for 8 links to the lb. of sausage. Regardless of how you load the sausage links onto the RapidFlow oven belt, it browns them all the way around. Links are cooked in 5 minutes, with a cook yield of 94%.

## **UNITHERM Food Systems, Inc.** 1108 West Hartford Ave.

Ponca City, Oklahoma 74601 Tel: (405) 762-0197 Fax: (405) 762-0199

e-mail: unitherm@pcok.com

#### **UNITHERM Food Systems, Ltd.**

Bailey Road Trafford Park Manchester M17 1SA Tel: 0161-848-8954 Fax: 0161-848-8955

e-mail: unithermuk@aol.com



Circle #350 on Reader Service Card

1680-82 CARMEN DRIVE • ELK GROVE VILLAGE, ILLINOIS 60007 U.S.A. TELEPHONE: 708.806.0454 • FAX: 708.806.1321

#### **NEW PRODUCTS FOR THE U.S. MARKET**

Unitherm stainless steel now manufacturing at Elk Grove village, Illinois used the Atlanta Poultry exposition to launch their U.S. operation.

The stand featured the Rapid Flow II continuous roaster cooker. in an attempt to differ from other exhibitors Unitherm had a production model (50' long) in running mode.

Production was undertaken for 8hrs per day. Two products were cooked to demonstrate the control of heat technology.

#### Product 1

3lb chickens were cooked continuously, the cook time was 60 minutes and cook weight (yield) 80%. This is 11% better than any alternative system. Rapid Flow's success is linked to large volumetric changes of convected super heat.

The even heat distribution creates the equilibrium of the cook, leaving unchallenged uniformity in color (this is not impingement).

#### **Product 2**

Sliced bacon: 35 slices per lb.

A Grote slicer was linked to the machine to create easy bacon transfer.

Cook time was 2 minutes and the yield 35%. Product was dark and golden in appearance. Texture was crispy.

The advantage of showing bacon being cooked at an exhibition is:

- 1. That it demonstrates how uniquely safe the Rapid Flow is when dealing with historically flammable products.
- 2. By cooking such a thin product, 1.5mm thick, without charring or burning. The benefits of superheat working can be witnessed.

This product portrays even heat distribution, our competitors would never attempt

PTO-003827

#### Page 2

Let me give you a laymens definition of superheat:

Fact - There is no humidity above 100 degrees C at atmospheric pressure.

Therefore at nominally 100 degrees C increasing the energy input to the vapor does not increase the temperature of the vapor but changes its state from wet vapor to dry saturated vapor, this is termed the latent heat of evaporating. Further energy input increases the temperature and this is termed superheat.

Therefore introducing moisture to an oven at say 250 degrees C has the effect of greatly increasing the energy per unit volume of the oven.

What we seek to control is saturation of the cooking zone with this vapor. In Rapid Flow II this is automatically done, when the machine is put i to working mode, all the programs are pre-set at our manufacturing plant. There is no "tweaking" required. We do not expect your operator to be a science graduate, therefore the operator merely controls temperature and belt speed (cook time).

#### Back to bacon

When the bacon enters the cooking zone it will be at a temperature of -4 to -6 degrees centigrade. Much like the vapor from the kettle contacting the ambient air and condensing, the chilled bacon forces the vapor to condense against it. This gives the product a protective layer. The vapor is denser than air, therefore it is more efficient in transferring its energy into the food product. The nett result is shorter cook time and a better yield.

Rapid Flow is a modular cooking system. The machine photographed here at the show is a 3 zone model, this can be built up to 8 zones long. Clearly your production growth can be achieved by adding zones.

Temperature control is +1 or -1 degree in each zone. This allows you to create cooking profiles for individual products.

PTO-003828

#### Page 3

#### Also Featured on the Unitherm Stand was:

- 1. Aqua Flow continuous vegetable / pasta cooker.
- 2. Stainless steel drainage systems.
- 3. Robeflow Enrober
- 4. Chicken stripping line.
- 5. Flow Stream Continuous or batch steam cooking.
- 6. Cook Chill skinless sausage system.
- 7. Graduator Cutter Pasta lasagne, pizza bases.
- 8. Mechanical handling systems for food factories.

#### SCHEDULED VISITS & TESTING

Jan. 06 BRYAN FOODS

Jan. 07 Wayne Rice

**CUSTOM RIBS** 

Jan. 06 or 07 INT'L TRADING CO.

**Testing Product** 

Jan. 16-17 WILSON FOODS

Jan. 20 ZACKY FARMS

Jan. 27 FOSTER FARMS

Jan. 28 - 29 HUDSON FOODS

These are 90% certain, but there still could be changes.

Per Jerry Adams

PTO-003830

### UNITHERM STAINLESS STEEL INC.

1680-82 CARMEN DRIVE, ELK GROVE VILLAGE, ILLINOIS, 60007. TEL: 708 806 0454 FAX: 708 806 1321.

> File: Venithern R: new Products

UNITHERM, the British engineering company which opened in Chicago two years ago has had good success with their RAPIDFLOW CONTINUOUS CONVECTION OVEN and has recently launched two new innovations in cookers -- the ROTACHEF and AQUAFLOW.

ROTACHEF is a continuous rotisserie oven used by one Chicago customer for the roasting and basting of baby back ribs. The process takes about forty-five minutes, after which the ribs can be coated with a tasty barbecue sauce and caramelized in a high temperature RAPIDFLOW. Tested on poultry and other products, UNITHERM expects this to be another successful product.

AQUAFLOW, a continuous water bath cooker or cooler has such a wide variety of uses that not even UNITHERM has had a chance to review all of its potential. At the recent International Exposition IPA - MATIC in Paris, visitors suggested it be used for cooking and immediate chilling of products as diverse as salad carrots, broccoli, prawns, Antarctic Krill, as well as portion packed chicken breast and pasta. The cooker is loaded with batches up to thirty pounds in weight either manually or by in-feed conveyor having a capacity up to one thousand pounds of product per hour, depending upon heat and retention time required.

For Further Information Contact: Mr. Bobby Cox

Unitherm Stainless Steel, Inc.

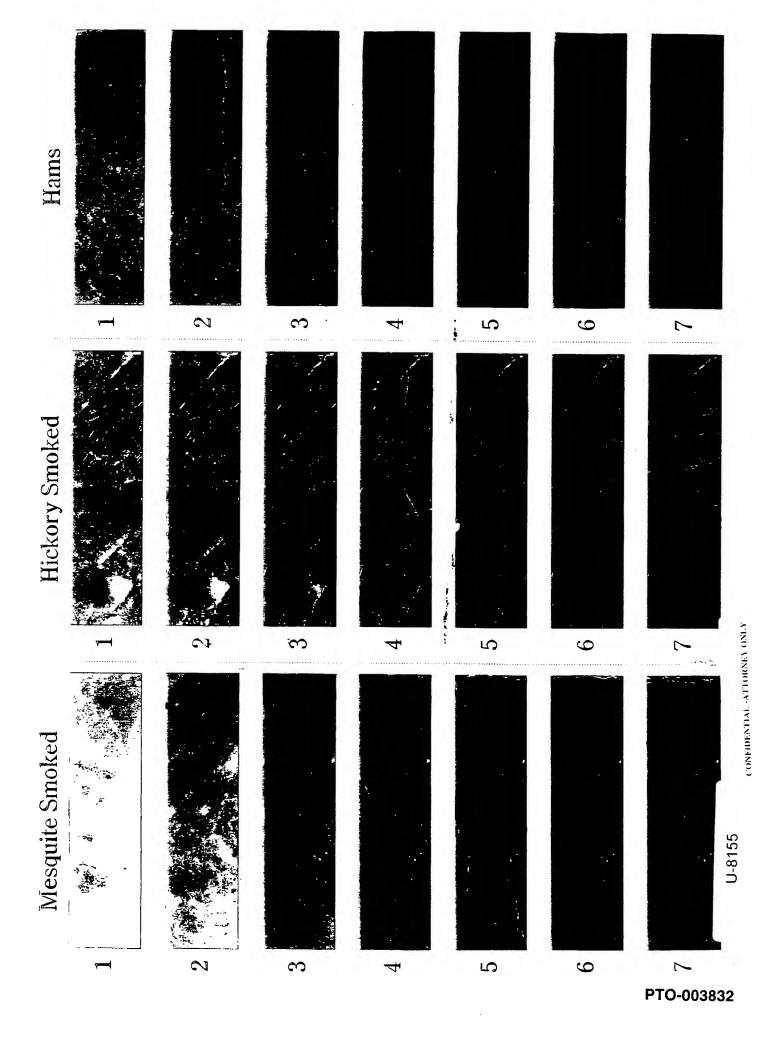
1680-82 Carmen Drive

Elk Grove Village, Illinois 60007 Telephone Number: (708) 806-0454 Facsimile Number: (708) 806-1321

NTLPROVS. LBR Stris is an code 4 did not appear on maled original; for our?

PTO-003831

U-8178



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PTO-003833

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Confidential Restricted Access U-06901

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Clean Inske stack

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Confidential Restricted Access What is, I that
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doing is say.

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Confidential Restricted Access U-06960 Beg 61tter
- Bowls turning By Knife
- Bowls Hanging up on Rails.
\* Safety raire for cover.

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Indexer - Sultares - Not up to code

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Confidential Restricted Access U-06970

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days per week

300

days per year

Covertly, Unithern

Correct Identifica ion #

Confidential Restricted Access U-06998

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Cooked Turkey Wings
170° F
Chill to 10° F
300° / hr

CONFIDENTIAL-RESTRICTED ACCESS

U-7893

PAGE \_/ OF \_//

GROUP: Meat Products

DIVISION: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Premont

199N

EDITION NO.: 1 DATE 2-14-86

#### COMPIDENTIAL

#### I. PRODUCT

1. 1-PIECE-HORNEL LUNCHBON LOAF, c.c. 714, item 19844

HIGHLY CONFIDENTIAL

PTO-003846

PAGE 2 OF 11 GROUP: Meat Products

DIVISI N: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Premont

EDITION NO.: 1 DATE FEB 1 0 1907

CONFIDENTIAL

## II. FORMULA - PER 300 POUND BATCH OF MEAT.

#### 1. Meat

14.50

1998 0 1987

into

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and is

:1-

Skinned, Split Pork Jowls  Trimmed Beef Cheeks Trimmed Pork Cheeks Pork Hearts  Subtotal  Seasoning	Mumber  RMAT 3270.02  RMAT 3161.00  RMAT 3291.00  RMAT 3350.00	88 88 62 62 300	0.0 0.0 0.0 0.0 0.0
Two bags per batch (1-Seasoning, 7 pounds) (1-Hormel Cure, 12 ounce 3. Additives	SEAS 200003	7	12.0
Water Wheat Flour Wonfat Dry Milk Sweet Pickles Pimentos Salt Total	ADTV 1401.0 ADTV 0307.1 ADTV 0305.3 RMAT 0203.1 RMAT 0506.1 ADTV 0703.3	108 50 50 38 17	0.0 0.0 0.0 0.0 0.0
4. Raw material requirements		579	12.0

- New material requirements
  - Fresh beef, maximum age is 5 days from date of out.
  - Prosen beef, maximum age is 90 days from date of pack.
  - Maximum temperature of freeh boof to 43' ?. HIGHLY
- Requirements for storage of spice

## CONFIDENTIAL

- a storage time for blended spice will be 6 months to
- r, the plant will be required to

PAGE 3 OF 11

GROUP: Meat Products

DIVISION: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Premont 199N

EDITION NO.: 1 DATE FEB 1 0 1987

#### COMPIDENTIAL

## III. PROCESSING INSTRUCTIONS

- 1. Manufacturing
  - a. Raw material preparation.
    - 1) Shovel formula required amounts of raw materials into stainless steel dump bottom buckets.
    - Transfer raw materials to chopping area.
  - b. Blending.
    - 1) Batching/chopping.
      - a) Neter 50 degree 7 (debired temperature) water with a Heptune Water Meter (Model 432) into Buffalo Chopper (Model Mark V).
      - b) Turn on chopper.
      - Dump meat from buckets into chopper.
      - Pour salt, seasoning, Hormel cure, wheat flour, and nonfat dry milk evenly over the meat while chopper is
      - e) Chop approximately 1-1/2 minutes.
    - Emulsifying.
      - Plow meat mixture from chopper into hopper of emulsi-
      - Emulsify meat mixture through Griffith Mincenast r using 2.5 mm and 1.2 mm size plates.
      - Discharge enulsion into a stainless steel dump-bott m bucket on a dolly. HIGHLY
    - 3) Mixing.

CONFIDENTIAL

- Hoist dump-bottom bucket to Buffalo Mixer (Model 5BVSA or Model 6A5) and drop meat into it.
- b) Add pickles and pimentos to meat.
- Close lid on mixer, draw a vacuum of 15-18 inches:

PTO-003848

Confidential Attorneys Only <u>U-06791</u>

PAGE 4 OF //

GROUP: Meat Products

DIVISION: Sausag

SPECIFICATION NO.: 2614.50

PLANT: Fremont 199N

EDITION NO.: 1 DATE 2-14-86

#### CONFIDENTIAL

- d) Run mixer 4 minutes.
- e) Dump into sanitized St. John stainless steel dump-bot-tom bucket on a dolly.
- f) Transfer meat to stuffing area.
- c. Stuffing.
  - 1) Casing preparation.
    - a) Use 16-1/2 x 5 x 4"iach Abrans stainless steel pans.
    - b) Grease pans with lard before filling.
  - 2) Stuffing.
    - a) Use 1 of the following stuffers to fill pans:
      - i. Handtmann Stuffer (Type VF-325).
      - ii. Handtmann Stuffer (Type VT-225).
      - iii. Vemag Stuffer (Nodel 3000).
      - iv. Vemag Stuffer (Model 1000).
    - b) Use a Hormel-Modified 4 x 15 inch Stuffing Horn for filling pans.
    - c) Adjust stuffer to its maximum speed.
    - d) Slightly overfill pan and form crown by hand.
    - e) Using a stainless steel jig, trim perimeter of pan.
  - 3) Hanging
    - a) Place 8 pans per shelf of hanging trolley.
    - b) Fill 4 shelves per trolley for a total of 32 pans.
    - o) Transfer trolley to smokehouse area.
- 2. Smoking/cooking

學。心學 为主

a. Prehandling-

Place trolley into smokehouse.

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PTO-003849

PAGE <u>5</u> OF <u>//</u>

GROUP: Meat Products

DIVISION: Sausag

SPECIFICATION NO.: 2614.50

PLANT: Fremont

199N

EDITION NO.: 1 DATE FEB 1 0 1987

#### CONFIDENTIAL

#### b. Cooking.

1) Suggested cook schedule:

Time (Hrs.)	Dry Bulb (Deq.P)	Wet Bulb (Deq.P)	Relative Humidity	<u>Smoke</u>	Damper	<u>Exhaust</u>
1	135	0	M/A	Off	Auto	Lov
1	155	125	421	Off	Auto	Low
1	170	140	45%	Off	Auto	Low
1	180	160	611	910	Auto	Low
2*	185	165	631	Off	Auto	Low

- \* Time approximate internal temperature must be 155° F degrees & before product can be removed from smokehouse.
- 2) Remove trolley from smokehouse.

#### c. Smoking.

- 1) Remove pans from trolley and dump loaf from pan.
- 2) Place loaves on stainless steel trolley.
- 3) Place trolleys in smokehouse.
- 4) Suggested smoke schedule:

	Dry Het			HIGHLY		
Time	Bulb	Bulb	Relative	CC	ONFIDE	NTIAL
(Min.)	(Tag.F)	(Peq.P)	Humidity	Smoke	Damper	Exhaust
30•	110	0	H/A	022	Auto	High
60	160	0	H/A	off	, Auto	High
10	180	•	M/A	off	Auto	High
35	•	-	•	**	Closed	Off
30	160	0	H/A	Off	Auto	High
10	180	0	H/A	Off	Auto	High
35	•	. •	-	**	Closed	off

PTO-003850

PAGE <u>5A</u> OF <u>//</u>

GROUP: Meat Products

DIVISION: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Fremont 1

199N

EDITION NO.: 1 DATE FEB 10 1967

#### CONFIDENTIAL

- \* Use only if loaves are extremely cold.
- اله. \*\* Atomize 2 g<del>álio</del>ns of liquid smoke.
- 5) Remove trolley from smokehouse.
- d. Chill.
  - 1) Place trolley in a 38 degree 7 (desired temperature) cooler and hold overnight.
  - 2) Transfer trolley to packaging area.



PTO-003851

PAGE 6 OF 11

VERCENDS MAKE Friedhouse

museum Sausage

SPECIFICATION WA

PARC: CERTAIN

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#### IV. PACKAGING

- 1. Prehandling
  - a. Remove loaves from trolley and place on table.
  - b. Using a Hormel-Modified Jig, cut loaves in half.
  - c. Place a loaf into a 9-1/2 x 20 inch printed shrink bag CV-305.
  - d. Convey loaves to Cryovac Packaging System (Model 8300-Bl2) and place the loaf in the system.
  - e. Convey loaves through Cryovac Submergable Shrink Cabinet (Model 8152). Desired water temperature is 195" degrees?, measured 4-6" inches above the conveyor. Product should NOT be run through cabinet if temperature varies below 195" degrees? or above 205, degrees?

HIGHLY

PTO-003852

PAGE \_7 OF \_//

. GROUP: Meat Products

DIVISION: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Premont

199N

EDITION NO.: 1 DATE 2-14-86.

#### CONFIDENTIAL

- 2. 1-PIECE HORMEL LUNCHEON LOAF, C.C. 714, item 19844
  - a. Porm box CC-956. take Parchasing Specification\_\_\_\_\_
  - b. Place 1 loaf into box.
  - c. Convey box to Pairbanks Automatic Scaling System. Scale automatically weighs product to the lower tenth of a pound and prints a label with the weight, code date (which is dat of which the first 2 digits indicate the month and the second 2 digits indicate the day of the month.
  - d. Place label from scaling system on end of box.
  - e. Close box and seal with two inch gummed paper tape.
    - Information printed on tape includes product description, item number, code date for date of packing, line and shift designations. Use the standard four digit code date. The first two digits indicate the month and the second two digits indicate the day of the month.
  - f. Palletize boxes and transfer to cooler for storage and shipping.

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PTO-003853

PAGE 8 OF //

GROUP: Meat Products

DIVISION: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Fr mont

199N

EDITION NO.: 1 DATE 2-14-86

CONFIDENTIAL

V STORAGE

Store product in a 34 degrees F (desired temperature) cooler

CONFIDENTIAL

PTO-003854

PAGE 9 OF //

GROUP: Meat Products

DIVISION: Sausage

SPECIFICATION NO.: 2614.50

PLANT: Fremont

1991

EDITION NO.: 1 DATE 2-14-86

COMPIDENTIAL

JY. CHEMICAL ANALYSES

There is no routine program for chemical analyses on this product at

HIGHLY CONFIDENTIAL

PTO-003855

PAGE \_/O OF \_//

GROUP: Meat Products

DIVISION: Sausag

SPECIFICATION NO.: 2614.50

PLANT: Premont

199N

EDITION NO.: 1 DATE 2-14-86

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## YTT. MICROBIOLOGICAL ANALYSES

There is no routine program for microbiological analyses on this product at this time.

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PTO-003856

To: M. Kalbassi

R. Goodey

P. Biddle G. Gleeson

oc: P. Key

From: R. Starling Date: 12 November 1992

#### REPORT ON TRIALS ON UNITHERN RAPIDELOW 2 CONTINUOUS COOKER 10 NOVEMBER 1962

INTRODUCTION.

The following report is a summary of trials undertaken on a Unithera RapidFlow 2 continuous cooker at the manufacturer's premises, together with a discussion of the advantages and disadvantages of the machine, and suggestions as to the possible options available to Wisbech factory.

MACHINE DESCRIPTION

The Unitherm cooker differs from most other continuous cookers, in that it does not utilise "impingement cooking", whereby heat is transmitted to the product by direct impingement of high pressure hot air onto the surface of the product. The Unitherm cooker circulates hot air (with the option of added humidity via water spray) around the cooker, rather like a conventional domestic fan oven. This is carried out using baffled fans located along one side of the cooker, which draw air over electric heating elements, and circulate the heated air around the product, cooking the product from all sides. The cooking is carried out in three separate heating zones, which are independently temperature controlled.

TRIAL SUMMARY

The birds used were uninjected 21b 12oz - 31b Ooz, trussed ex Wisbech. Trials indicate that whole birds in this weight range can be satisfactorily cooked in the oven to acceptable deep muscle temperatures and cooked bone marrow in both the femur and backbone. Cooking time was of the order of 1 hour 13 minutes to achieve these criteria, although it is believed that this could be reduced to 1 hour by further trial work. Product colour was good, and even across most of the helt, although a marginal imbalance in air flow caused alight burning on one side of the birds on the left hand side of the belt. This can be cured by adjustment to fan baffles. Standard Pedley spray (dextross/xyloss/crystal goms) was applied to all birds using a hand spray gom, giving two sprays to each side of each bird. The spray was proved to be critical to devalogment of colour, unsprayed birds being yellow in colour, rather than standard golden/brown. Colour could therefore be controlled by automatic spray on the infeed section of the cooker.

DISCUSSION

The cooker subjected to trial was a 810mm wide belt feeding an 8m long oven. The original intention was to install a 1m wide belt oven, which, to achieve the desired 20001b/hr throughput, would have to be 30m long. This cooker would cost in the order of £450,000. An option which is worth consideration, is to run two 8m long/610mm wide machines in parallel, which would have several advantages. Firstly, the length of the machine is more compatible with the available space proposed at Wisbech; secondly, two cookers would give greater product flexibility, enabling two products to be produced simultaneously; thirdly, throughput (in terms of whole birds of 31b weight) would be increased to approximately 30001b/hr; and lastly, the two cookers, because of economies of scale, would cost in the order of £350,000, giving a considerable saving. The only disadvantage which can be foreseen is the width of the available space at Wisbech.

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#### TRIAL DETAIL

#### TRIAL 1

21b 12os - 31b Ooz, sprayed with standard Padley birds. spray (dextrose/xylose/crystal gum), ne spray to ach breast, one to each leg. Fed to cooker 2 x 2 on right hand side of belt, breast 1 ading. Residence time 40 minutes, digital speed reading 0.90m/min.

Temperatures: sone 1 - 180°C set point

zone 2 - 270°C set point (high set point reading due to reverse air flow over heating elements)

' zone 3 - 180°C set point

Product DMT 60°C - 65°C, colour good (P2), blood in backbone, marrow red.

#### TRIAL 2

4 birds, as per trial 1. Residence time 50 minutes, digital speed reading 0.75m/min.(changed to 0.70m/min. after 28 minutes). Temperatures: zone 1 - 180°C set point

sone 2 - 270°C set point zone 3 - 180°C set point

Product DMT 76°C - 90°C, colour dark (P2-P3), blood in backbone, marrow red.

#### TRIAL 3

6 birds, as per trial 1. 2 rows of 2 sprayed, 1 row of 2 unsprayed. Residence time 65 minutes, digital speed reading 0.60m/min. Temperatures: zone 1 - 170°C set point

zone 2 - 265°C set point

zone 3 - 170°C set point

Product DMT 88°C - 95°C, colour good to dark (P2-P3) on sprayed birds, pale yellow on unsprayed birds. Marrow cooked on femur, blood present in backbone of 2 birds in 6.

#### TRIAL 4

6 birds, all sprayed, fed as in trial 1. Weighed raw at 161b 14oz, cooked at 131b 4oz, giving cook yield of 78.6%. 20 birds, all sprayed, fed in b rows of 4 across full width of belt. Residence time 73 minutes, digital speed reading 0.54m/min.

Temperatures: zone 1 - 170°C set point zone 2 - 265°C set point zone 3 - 170°C met point

Product DMT 85°C - 95°C, colour good to dark (P2-P3), marrow cooked, no blood present in backbone of 12 birds sampled. Slight burning of outer side of birds fed down left hand side of belt (in direction of feed).

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#### STARLING - PROCESS DEVELOPMENT MANAGER

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PAGE 3 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 02 1992

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#### III. PROCESSING INSTRUCTIONS

#### 1. Manufacturing

- a. Preparation.
  - 1) Use fresh breast halves with the skin removed.
    - a) Fresh breasts may be held in a fresh cooler below 40 F for up to 7 days.
  - Breast halves must meet all raw material specifications.
    - a) Breast meat has been trimmed of all skin, blood, bones, and bruises.
    - b) No fillets will be used in this product.
  - 3) If frozen product is used:
    - a) Place the breast halves in a plastic bag (30 lbs.).
    - b) Place bagged product in a bulk pack box.
    - c) Palletize and place into the freezer until ready to use.
    - d) Thaw the breasts in a stainless steel tank.
    - e) Run cold water continuously over the bagged product until thawed.
    - f) Store thawed breasts in a holding cooler under 40 F with ice.
    - g) Temperature of frozen/thawed product must not exceed 40 F.
    - h) Inspect frozen/thawed product to assure that all plastic from the bags has been removed. HIGHLY CONFIDENTIAL.

#### b. Trimming.

- 1) Cut away any blood, bruises, and any other defects. (See In/Process Specs.)
- 2) R move all skin using the skinner machine. Defat the skin (see skin defatting procedure) and place 50 skins per bag.

PAGE 4 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 02 1992

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- 3) Place the breast halves into plastic bags and place into a stainless steel tank. Cover with plastic and fill out identification card.
- 4) Transfer the breast halves and the skin to plant 1 for further processing.

### 2. Blending

- a. Transfer a tank of breast halves to the Weightronix Scale.
- b. Place an empty tank on the scale.
- c. Empty the bagged breasts from the bag and place them into the empty tank until there is 1000 lbs. of meat in the tank.
- d. Transfer the 1000 lbs. of meat to the Suhner Injector (Model WS-30).
- e. Mix the brine solution in the Groen Mixing Kettle, which has direct hook-up to the injector.
  - 1) Brine mixing procedure:
    - a) Fill the Groen Kettle with 100 gals. of water.
    - b) Start the Lightning Mixer on high speed.
    - c) Dissolve sodium nitrite into 1 gal. of water, in a separate container.
    - d) Add sodium phosphate.
    - e) Add sodium erythorbate.
    - f) Add sugar.

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- g) Add salt.
- h) Add the dissolved sodium nitrite.
- i) Mix until the solution is clear.
- f. Place the breast halves into the injector.
- q. Fill the injector with the injection solution.
- h. Start the injector and inject the meat.
  - 1) Inject the meat to 35% of the green weight.

PAGE 5 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 0 2 1992

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i. Place a roller tank under the injector outlet.

- 1) Enter tare weight of tank before weighing.
- j. Weigh the injected meat after tank is filled.
  - 1) If overweight, dip out solution until desired weight is obtained.
  - 2) If underweight, add solution to the batch until the desired weight is obtained.
- k. Load contents into Challenge Tumbler.
  - 1) Tumble for 4 hours at 6.5rpm.
- 1. Dump the contents into a stainless steel tank.
- m. Cover the tank with plastic and identify the contents with an identification card.
- n. Store in the fresh cooler (under 40 F).

## Stuffing

- a. Transfer a tank of tumbled breast halves to the tank dump.
- b. Dump the product into a stainless steel holding bin.
- c. Weigh and trim to meet approved weight requirements.
  - 1) 8.7 lbs. to 9.6 lbs.
  - 2) Ideally, 3 pieces/unit.

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- d. Place weighed portions into the conveyor pockets and convey to an operator.
- e. For items 20670 and 11502 Stretch a skin pattern to fit inside the Pioneer molded pocket. Place skins so that outside of skin is facing down (against the film).
  - 1) Item 16242 is skinless.
- Place 2 breast halves on the skin, cut side facing up.
  - 1) For item 16242 Place breasts directly in the mold, side-by-side with cut side facing UP.

PAGE 6 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 0 2 1992

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Pioneer machine makes the preformed pockets using Cry-O-Vac forming and non-forming films.

- a) #T6160BA forming film (22-3/16 x 12) and #T6140BA non-forming film (20-3/4 x 12).
- g. Place additional breast halves on top of the others with cut surface facing cut surface.
- h. Convey through the Pioneer machine, where the machine heatseals the non-forming film to the forming film.
  - Pioneer machine settings are as follows:
    280 F at 2-3 second intervals

i. Cut the packages apart by hand using a knife.

- j. Convey the product through the Cryovac Shrink Tunnel (Model #8152-1-18).
  - 1) Ideal water temperature is 205°F ± 5°F.
- k. Check the packages for defects according to specifications.
  - 1) Skin-on items must have 90% skin coverage.
  - Defective packages may be repacked.
- 1. Place the packaged product on a clean cooking rack.
  - Place 16 packs to a layer, 10 layers to a rack.
  - Product cannot touch each other.
- m. Weigh the cook rack (less the tare of the rack) and record the information in production log as follows:

Weight Blend Number Cook Number Units per Rack

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n. Hold the product in a fresh cooler under 40 F until there are enough racks to fill an oven.

### Cooking

a. Transfer racks of product from the fresh cooler to the Alkar Oven until oven is full.

PAGE 7 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 0 2 1992

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b. Place a time/temperature chart into the controller on the instrument panel.

c. Set the cycles on the oven as follows:

Time (Hrs.)	Dry Bulb (Deg.F)	Wet Bulb (Deg.F)
1	140	140
2	150	150
.2	160	160
1.5*	170	170

<sup>\*</sup> Until internal temperature reaches 158°F.

- d. Shower product with cold water for 1/2 hour.
- e. Activate the blower for 10 minutes to dry product, after shower has been turned off.
- f. Remove the product from the oven and transfer to a cooked cooler under 40 F.

## 5. Stripping

- a. Transfer the product from the cooked cooelr to the Cryovac Packaging room.
- b. Remove the product from the rack and place it on a stainless steel table.
- c. Remove the plastic Pioneer packaging manually using a knife.
  - 1) Use care not to cut into the product. HIGHLY CONFIDENTIAL
- d. Place a #882xF Tipper Tie netting over the product.
  - 1) Twist the end to get a tight fit.
  - 2) Tuck the loose end under the product and return product to the cooking rack.
    - a) Units must not touch each other.
- e. Transfer the rack of product to a holding cooler under 40 F.

PAGE 8 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 0 2 1992

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# 6. Smoking procedures

- a. For item 11502 (Hickory Smoked).
  - Wash the oven with SA 55 acid until the oven is clean. Rinse the oven thoroughly with water.
  - Activate the oven blower with heat to dry the oven.
  - Place mineral oil on the floor to prevent black specks caused by drippings from the rack.
  - 4) Transfer racks of cooked and netted product to the Alkar Oven until oven is filled.
  - 5) Insert the time/temperature chart and set the cycles for smoking as follows:

Time (Min.)	Dry Bulb (Deg.F)	Wet Bulb <u>(Deg.F)</u>
50	160	140
25	160	0
30	Smoke*	
25	170	0
25	Smoke**	
25	170	0

<sup>\*</sup> Fill the atomizer with 1-1/2 gals. of liquid hickory smoke.

6) Start the blower and the oven.

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- a) Fresh air and external dampers must be clos d!
- 7) Attach the atomizer machine (Model 100) to the oven.
  - a) Fill the atomizer with 1-1/2 gals. of liquid hickory smoke.
  - b) Set the air and the liquid pressure on the atomizer.
    - i. Air pressure at 85 lbs. PTO-003864
    - ii. Liquid pressure at 55 lbs.

<sup>\*\*</sup> At the end of cycle 3, fill the atomizer with 1-1/2 gals. of liquid hickory smoke.

PAGE 9 OF 16 SPECIFICATION NO.: 3004.42

GROUP: Meat Products PLANT: Jennie-O P-7760

DIVISION: Sausage/Turkey EDITION NO.: 1 DATE DEC 02 1992

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8) At the end of cycle 2, smoke the product for 30 minutes, or until the liquid smoke is used up.

- 9) At the end of cycle 3, fill the atomizer with 1-1/2 gals. of liquid hickory smoke.
  - a) Set the air and liquid pressure. (See L-2)
  - b) Smoke the product for 25 minutes or until the liquid smoke is gone.
- 10) Complete cycle 4.
- 11) Check the product for color. (See color chart)
- 12) Remove the product from the oven and place it in a cooked cooler under 40 F.
- b. For items 20670 (Mesquite Smoked) and 16242 (Skinless).
  - 1) Repeat steps 1), 2), and 3) for "a." above.
  - Transfer racks of product to the Alkar Oven until the oven is filled.
  - Insert the time/temperature chart and set the oven cycles for smoking as follows:

Time (Min.)	Dry Bulb (Deg.F)	Wet Bulb <u>(Deg.F)</u>
60	140	0
50	Smoke*	
15	160	HIGHLY
50	Smoke**	CONFIDENTIAL
30	160	0

- \* Fill the atomizer with 3-1/2 gals. of liquid mesquite smoke.
- \*\* Smoke the product for 50 minutes, or until the liquid smoke is used up.
- 4) Start the blower and the oven.

PTO-003865

5) Run cycle 1.

PAGE 10 OF 16

SPECIFICATION NO.: 3004.42

GROUP: Meat Products

PLANT: Jennie-O

P-7760

DIVISION: Sausage/Turkey

EDITION NO.: 1 DATE DEC 0 2 1992

## CONFIDENTIAL

- 6) Attach the atomizer to the oven.
  - a) Fill the atomizer with 3-1/2 gals. of liquid mesquite smoke.
  - b) Set the air and liquid pressure.
    - i. Air pressure at 85 lbs.
    - ii. Liquid pressure at 55 lbs.
- 7) Smoke the product for 50 minutes, or until liquid smoke is used up.
- 8) Let the product set for 15 minutes.
- 9) Run cycle 2.
- 10) Fill atomizer with 3-1/2 gals. of liquid mesquite smoke.
  - a) Set the pressure settings.
- 11) Smoke the product for 50 minutes, or until the liquid smoke is used up.
- 12) Let the product set for 15 minutes.
- 13) Start cycle 3.
- 14) Check the product for color. (See color chart)
- 15) Remove the product from the oven and truck it to a cooked cooler under 40 F until the product is 40 F or below.

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# 7. Inspection

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a. All Hormel product is subject to a complete inspection by Quality Control personnel prior to packaging.

PTO-003866

The attached changes to Process Specification Number 3004.42 are hereby approved.

# PURPOSE OF CHANGES:

To update the entire specification as requested by JENNIE-O.

These changes affect the following pages of the basic specification:

The entire specification has been reprinted.

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			=			מ	STATED BY:	نز		DATE
	ITHERIM STAINLESS STREET COORNO TRIAL DATA SPIEET	UNITHERIM STAINLESS STEEL INC. COORNO TRIAL DATA SPEET		SPATE SPATE	+ Clar	TURKEY CROWNS BOARS HON	30AES	HOR		4/1/93
T. C.	100	ğ	TEMP	TEMPERATURES 'C	S	STAKT		YIELD	INTERNAL	REMARKS.
<b>1 2</b>		TAKE.	ZCNE 1	ZONE 1 ZONE 2	SONE 3		5	(0)	1E30. 7	
	140017				No JAHER	一 う う		うう		DONING OF BUILD STIM
	PS (A)	- CHIM	275	38	300	7660	728095 41-7	B		75%60CMR
0	2	75 77 77	27		37	350 250 645 6375 96 41-6	6375	8		SUGHT BUSHING 75% TOP ZULUK 26% BOTOS
7	<u>イン</u>	1000	) 3	_	JAN 1	STATE OF			1	100% along TOP
<u>~</u>	S.1.5	21.542 10/2414 35	35	350	3	4.17	330 24649	977	4/3	50% wow form
t	77	JO/2012	320	375	SOS COS	LITTERAR GRAINS 3.40	325 24682	2.7	7.84	RUENTING OFFICAR
1	DIL)		3 0	.	3 0	1	6.630   356   42	226	42.1	EUSTERIUS, OF SEIM 100%, COLEUR TOP 50%, COLEUR ESTEM
2 (	54 CHOI	13/11/2	320	.	8	575 3800 6900 6485 33.9 417	Sept. 9	58.9	111	PENSO HERED ALM PENSO HERED ALM TWO ZEALE CLOK
1	5 5 5	18 0 I	320	525	317	7820		7.75	7.17	7365 94.2 41.4 Control of the contro
00	500		025	838	<u> </u>	1	630 645 982 427	5882	42.7	
0	3 0 0	7	82	525	1	-6835		J83°	6400 Ps. 432	STILL BUSTERED ON TOP GOODUNDERING COLUM
10	2HZ		220	3800	1	7.08	7085 6465/24	2/24		4727 GOOD TOP COLOUR
	9142		28	360	1 - 1	- 7350	7350 6945 Prig 44.3	12/10	4.3	SXX BOTTOM COLONIC
							<del></del>		,•	
			-	-						

	OVEN	OVEN LENGTH (PROCESS)		26 2	PRODUCT:		9:	S.POLED BY:	یز		DATE
····		COCCUS TRAL DATA SPEET			VAPTED	_		ዘልጥዩተሞፒር			May 19, 1993
			7		SERVING OF	S	.			INCT - TAVAL	BELT IDG
	<u>i</u> 4		} <u> </u>	Ä	ZONEZ		WEIGHT	THOUSE THE PROPERTY OF THE PRO	YES	TEMP. F	RAW LBS/FTZ
INPUT 900-1000	#1 Sausage	30.26	7 minutes 8 seconds	200	300	265	2.17 (math)	2.210 (filth)			12-15 Units (14) (14) 2.48ea 2.171bs/FTZ (615)
LARGE	# 2 Sausage	30.26 FT4Mby	7 minutes 8 seconds	200	320	270	2.06 (actual)	1.71	838	155°	EXCELLENT COLOR/TEXTURE
	# 3 Sausage	30.26	7 minutes 8 seconds	200	320	270	4.805 (actual)	4.115	898	160 <sup>0-</sup>	33 PCS
FINGER PORK	-	49.74	4 minutes 23 sec.	200	333	250	1.245	1.15	928	1600	1.245 - 21 PCS 24 PCS per FT 2
	(LEAN)	49.74	4 minutes 23 sec.	200	333	250	1.34	1.24	928	1620	1.34 - 21 PCS
	<u>س</u>	30.21		170	300	200	1.55	1.435	938	1620	
	_				-		_				7.5 PCS/SQ.FT.
PATTIES		49.74		200	333	250	9.	0.53	888	162	.9LB/FT <sup>2</sup>
BACON	4	69.97	3 minutes250	\$250	320	275					GOOD
SHANKS	S	17.16		175	275	175					WEIGH IN BEFORE SMOKE
KNUCKLES	و	17.16		175	275	175					WEIGH IN BEFORE SMOKE
RIBS	7	17.16		175	275	175	4 4 15.3751bs	1bs 11.375	748		WEIGH IN BEFORE SMOKE
)-00387 ************************************						-					
7.											(1.02)

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+	OVEN	OVEN LENGIH (P	(PROCESS) -	26							DATE.
	THE LENS	N STANE	UNITED STANLESS STEEL INC.		PHODUCT:	-			•		
	0000	COOCHE TRIAL DATA SHEET	TA SEET		VARTED	-		HATFIELD			May 19, 1993
			2	l.	CHATTRES C	9	START		5	MENA	BELT LPGBES
	<u> </u>		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ä		ZONES	WEIGHT			TEMP. F	RAW LBS/FTZ
INPUT 900-1000	-#K	30.26	7 minutes 8 seconds			265	2.17 (math)	2.210 (flath)			12-15 Units (14) (14) 2.48ea 2.171bs/FTZ (615)
lbs/hour LARGE LINK	# 2 Sausage	30.26 FT/MIN	7 minutes 8 seconds	200	320	270	2.06 (actual)	1.71	838	155°- 160°	EXCELLENT COLOR/TEXTURE
	# 3 Sausage		7 minutes 8 seconds	200	320	270	4.805 (actual)	4.115	868	160 <sup>0</sup> -	SO
FINGER	-	49.74	4 minutes	200	333	250	1.245	1.15	928	1600	1.245 - 21 PCS 24 PCS per FT 2
ŞAUSAGE	(LEAN)	49.74	4 minutes 23 sec.	200	333	250	1.34	1.24	928	1620	1.34 - 21 PCS
		30.21		170	300	200	1.55	1.435	938	1620	
	,    -		-1-		-		_				7.5 PCS/SQ.FT.
PATTIES		49.74		200	333	250	9.	0.53	888	162	9LB/FT <sup>2</sup>
BACON	4	69.97	3 minutes250	9250	320	275					G00D
	<u></u>	17.16		175	275	175					WEIGH IN BEFORE SMOKE
HANKS	l	17.16		175	275	175					WEIGH IN BEFORE SMOKE
		17.16	14 mis	175	275	. 175	15.375	3751bs 11.375	748		WEIGH IN BEFORE SMOKE
ГО-0038											 U-02850